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PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Chan-Soo HWANG et al.                      Group Art Unit: 2681  
Serial No.: 10/691,903                                      Docket: 678-1217  
Filed: October 23, 2003                                      Dated: March 19, 2007  
For: TRANSMISSION/RECEPTION APPARATUS  
FOR A WIRELESS COMMUNICATION SYSTEM  
WITH THREE TRANSMISSION ANTENNAS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to Applicant's continuing duty of disclosure, the information listed in the attached form PTO-1449 is brought to the attention of the Examiner. A copy of each reference is attached hereto.

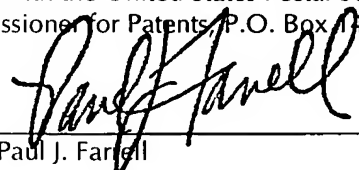
The citation of the listed items is not a representation that they constitute a complete or exhaustive listing of the relevant art or that the references are prior art. The items listed are submitted in good faith, but are not intended to substitute for the Examiner's search. It is hoped, however, that in addition to apprising the Examiner of these particular items, they will assist in identifying fields of search and in making as full and complete a search as possible.

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**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postpaid in an envelope, addressed to the: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on March 19, 2007.

Dated: March 19, 2007

  
Paul J. Farrell

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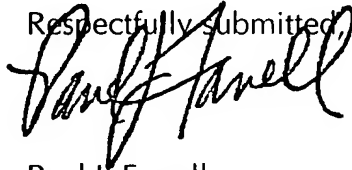
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The filing of this Information Disclosure Statement is not an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

Enclosed by check is the \$180.00 fee required by 37 C.F.R. § 1.17(p).

The claims of the application as now presented are believed to patentably distinguish over the prior art and to be in condition for allowance. Early and favorable consideration of the case is respectfully requested.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Paul J. Farrell", written over the typed name.

Paul J. Farrell  
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Sheet 1 of 1

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
678-1217SERIAL NO.  
10/691,903INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTAPPLICANT  
Chan-Soo HWANG et al.FILING DATE  
October 23, 2003GROUP ART UNIT  
2681

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

		1.	Naresh Sharma et al., Improved Quasi-Orthogonal Codes Through Constellation Rotation, 2002.
		2.	Weifeng Su et al., A Design of Quasi-Orthogonal Space-Time Block Codes with Full Diversity, 2002.
		3.	Yan Xin et al., Space-Time Diversity Systems Based on Unitary Constellation-Rotating Precoders, 2001.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])